

Wind Analysis Summary Report

Site Number

597

Site Information

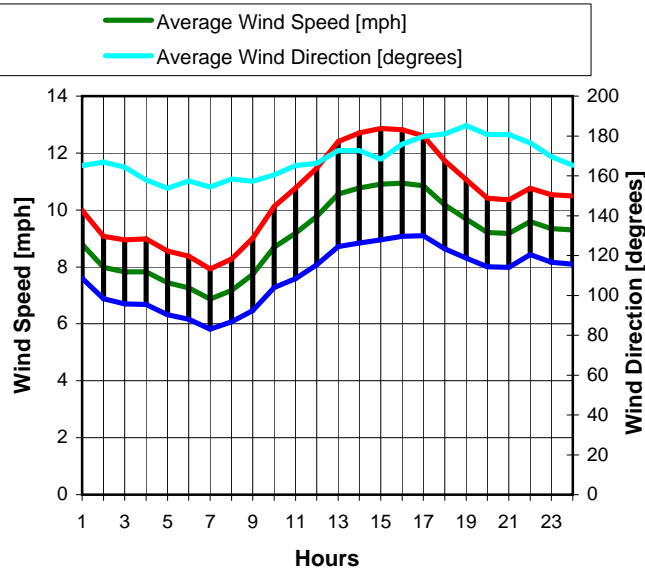
Project: Coldwater Creek Rest Area
Location: West of American Falls
Site Elevation: 4429 ft
Averaging Time: 10 min.

Sensor Information

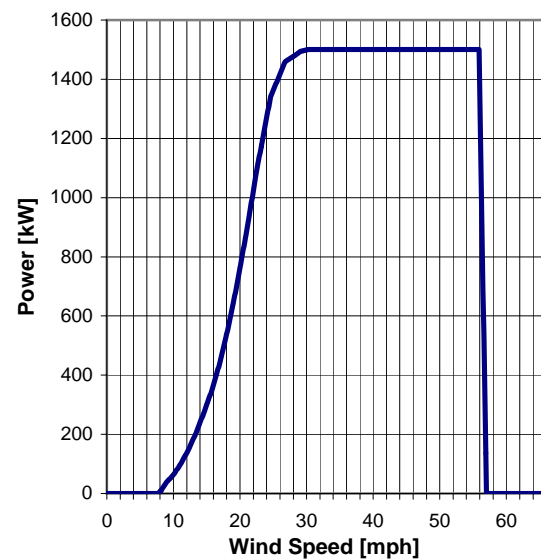
Sensor/Tower Height: 66 ft
Scaled Height: 213 ft
Windvane Offset: 0 degrees

Date Range: 12/20/04 8:20-5/10/05 15:00

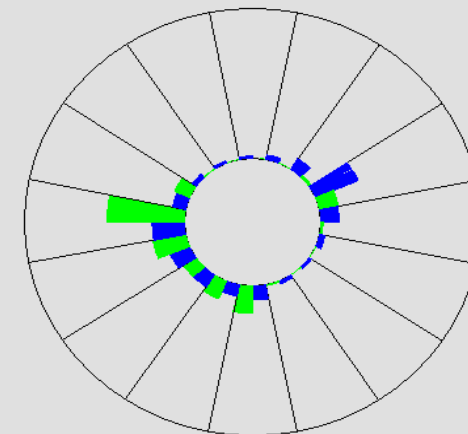
Diurnal Wind Speed Pattern



GE 1.5 S, 70.5m rotor,



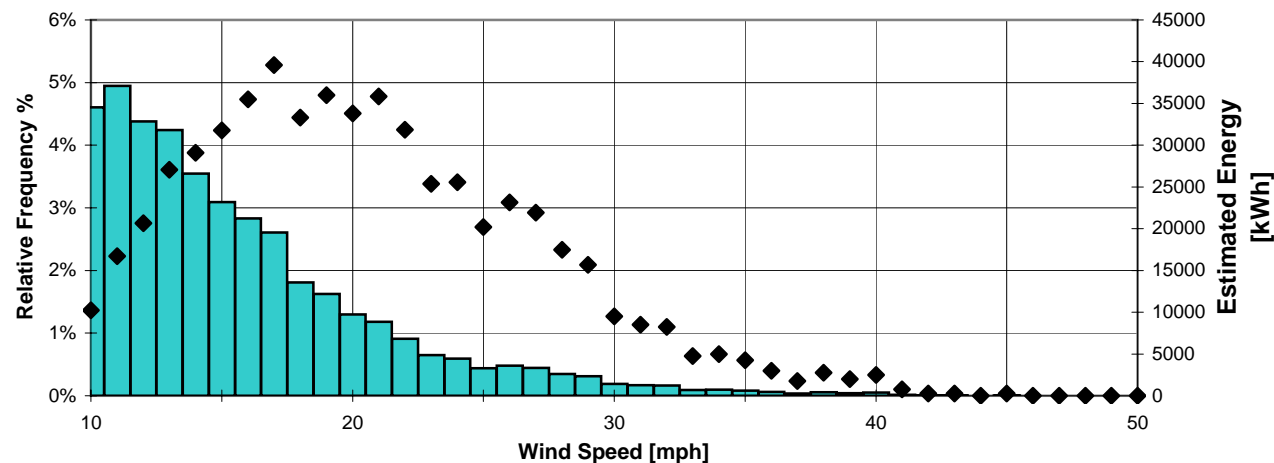
Wind Rose Graph



Percent of Total Wind Energy Inner Circle = 0%
Percent of Total Time Outer Circle = 70%

Frequency Distribution Graph

Relative Frequency [%] Estimated Energy [kWh]



Statistics

Days Used in Calculation: 141.28
Hours Used in Calculation: 3390.83
Gust Speed: 44.6 mph
Gust Time: 3/12/2005 15:10
Estimated Energy Output: 590133 kWh
Calculated Air Density: 1.068 kg/m³
Average Wind Speed: 9.53 mph
Average Wind Direction: 168 degrees
Capacity Factor: 0.12
Turbine Manufacturer: GE Wind Energy
Turbine Model: GE 1.5 S, 70.5m rotor,
Turbine Rating: 1500 kW
Estimated Annual Production: 1524570 kWh/Year
Scaled Est. Annual Production: 2292638 kWh/Year
Scaled Air Density: 1.061 kg/m³
Scaled Capacity Factor: 0.17